

PB7200 BenQ PB7220 PB7100

User's Manual

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Fill this in!!						
	eded in the future, record the information described below. The the back of the product.					
Projector Informa	ation					
Product Name:	PB7200/ PB7220/ PB7100					
Serial Number:						
Date of Purchase:						
Dealer Information						
Dealer:						
Telephone Number:						
Address:						

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INTRODUCTION

↑ Caution

TO PREVENT SHOCK, DO NOT OPEN THE CABINET. NO USER -SER-VICEABLE PARTS INSIDE. REFER SERVICING TO OUALIFIED SERVICE PERSONNEL. PLEASE READ THIS USER'S MANUAL BEFORE YOU OPERATE YOUR PROJECTOR. SAVE THIS USER'S MANUAL FOR FUTURE REFERENCE.

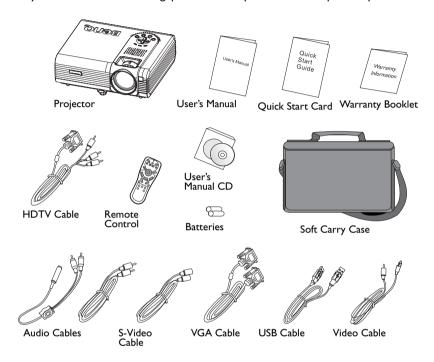
Safety Instructions

- Read this user's manual before you operate your projector and save it for future reference.
- The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement. Do not operate lamps beyond the rated lamp life. Excessive operation of lamps beyond the rated life could cause them to explode on rare occasions.
- Never replace the lamp assembly or any electronic components unless the projector is unplugged.
- 4. To reduce the risk of electric shock, do not disassemble this appliance. Take it to a qualified technician when service or repair is required. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
- 5. Do not place this product on an unstable cart, stand, or table. The product may fall, sustaining serious damage.
- This product is capable of displaying inverted images for ceiling mount installation. Please use suitable equipment for mounting the unit and ensure it is securely installed.

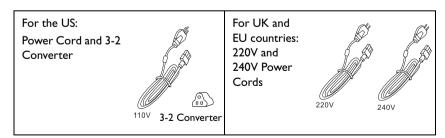
- Always open the lens shutter or remove the lens cap when the projector lamp is on.
- Do not look straight at the projector lens during operation. The intense light beam may damage your eyes.
- In some countries, the line voltage is NOT stable. This projector is designed to operate safely within a bandwidth of 110 to 230 volts, but could fail if power cuts or surges of more than 10 volts occur. In these high-risk areas, it is recommended that a power stabilizer unit be used in conjuction with this projector.

Shipping Contents

The projector is shipped with the cables required for connection to standard PC or laptop computers. Carefully unpack and verify that you have all the items shown below. If any of these items are missing, please contact personnel at the place of purchase.



Alternative Accessories

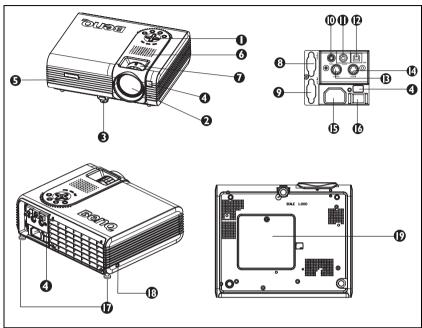


Optional Accessories

- I. Macintosh adapter
- 2. 250W lamp module
- 3. Ceiling mount kit

Projector Description

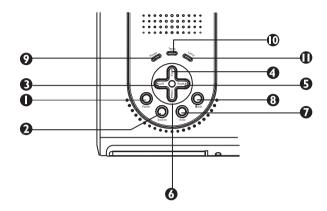
Projector



- External control panel (see next page)
- Projection lens
- Front adjuster
- 4 IR remote sensor
- Ventilation grill
- 6 Speaker
- Projection lens adjuster
- RGB (PC/ Mac) signal input I
- RGB (PC/ YPbPr/ YCbCr) signal input
 2
- Video connector

- Audio jack
- USB mouse connector
- S-Video jack
- RS 232 control port
- AC power cord inlet
- Main power switch
- Rear adjuster feet
- Kensington lock slot
- Lamp door

External Control Panel



1 Power

Presses the **Power** key to turn the projector on or off.

? Source

Selects signal sources from among RGB-1, RGB-2, YPbPr. S-Video and Video.

3 Left 4 Exit 5 Right 6 Menu

Menu will display the menu system on screen. Press Menu again to access the sub-menus. Left and Right help you navigate among choices and settings in the menus and sub-menus. However, when the on-screen menu is not activated, the Left and Right buttons will function as Keystone -/+ hot keys. Press the Exit button to go back to the main menu. Press Exit again to leave the menu system.

Auto

Automatically determines the best picture settings for current received signals.

Blank

Uses **Blank** to hide the screen image. You can unseal the image gradually by using the mouse of the remote control, or simply press **Blank** to turn on the image immediately.

Power indicator

It will light up or flash when the projector is under operation.

Temp indicator

The Temp indicator will flash when the system temperature is too high, which may occur if the projector is operated improperly. See "Temp Information" on page 24 for more detailed information.

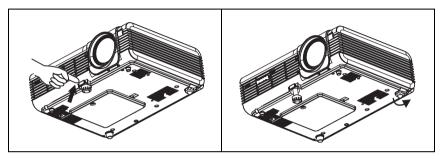
Lamp indicator

The Lamp Indicator will light up when the lamp needs service or replacement. See "Lamp Information" on page 22 for more detailed information.

Adjuster

The projector is equipped with I quick-release adjuster foot. Push the button to adjust its tilt angle.

- 1. Lift the projector up and press the adjuster button to release the adjuster.
- 2. The adjuster will drop into position and be locked.



Projector Features

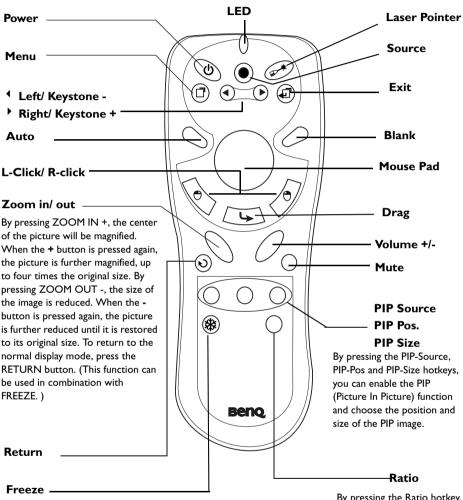
The projector integrates high-performance optical engine projection and a user-friendly design to deliver high reliability and ease of use.

The projector offers the following features:

- Small and light for portability
- Full-function remote control with laser pointer/ remote mouse function
- · High quality manual zoom lens
- One-key auto-adjustment to display the best picture quality
- Digital keystone correction to correct distorted images
- Adjustable color balance control for data/video display
- Ultra-high brightness projection lamp
- Ability to display 16.7 million colors
- On-screen menus in 8 languages: English, French, German, Italian, Spanish, Korean, Traditional Chinese and Simplified Chinese.
- Switchable Normal/ Economic mode to adjust the power consumption
- Powerful AV function to provide high quality AV picture
- HDTV compatibility (YPbPr)

Note: The brightness of the projected image will vary depending on the ambient lighting conditions and contrast/brightness settings.

Remote Control Description



The image is frozen when FREEZE is pressed. A "Pause" icon will appear in the lower right corner of the screen. To stop the freeze function, press the FREEZE button, RETURN button or SOURCE button (when the input source is switched over during display) again.

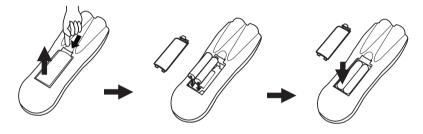
By pressing the Ratio hotkey, you can select the screen aspect ratio you prefer: 4:3.16:9 or 1:1.

Remote Control Effective Range

The remote sensors are located on the front and the back of the projector. It can function in a range of 30 degrees horizontally and 30 degrees vertically relative to a line that is a right angle to the remote sensors. The distance between the remote control and the remote sensors must be shorter than 6 meters (19.5 feet).

Installing or Replacing Batteries

- Push and open the battery compartment lid in the direction shown.
- Install batteries as indicated by the diagram inside the compartment.
- Position the lid over the compartment and snap it back into place.



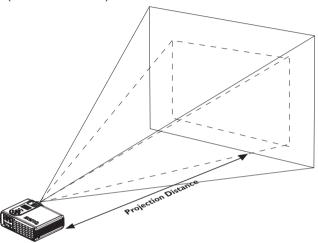
⚠ Caution

Avoid excessive heat and humidity. There may be danger of an explosion if batteries are incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

INSTALLATION

Screen Size

Place the projector at the required distance from the screen according to the desired picture size (see the table below).



• PB7200/ PB7220 (XGA) screen size chart

Distance Diagonal measurement		nent	Distance from		Diagonal measurement							
	from screen		Minimum Maximum		mum	screen		Minir	num	Maxir	num	
II OIII s	SCIECII	ZO	om	zoom		SCIE	screen		zoom		zoom	
feet	inches	feet	inches	feet	inches	meters	cm	meters	cm	meters	cm	
4	48	2.49	29.9	3.05	36.6	I	100	0.62	62.2	0.76	76.2	
6	72	3.73	44.8	4.57	54.9	1.5	150	0.93	93.3	1.14	114.3	
8	96	4.98	59.7	6.10	73.2	2	200	1.24	124.5	1.52	152.4	
10	120	6.22	74.7	7.62	91.4	2.5	250	1.56	155.6	1.91	190.5	
12	144	7.47	89.6	9.14	109.7	3	300	1.87	186.7	2.29	228.6	
14	168	8.71	104.5	10.67	128.0	3.5	350	2.18	217.8	2.67	266.7	
16	192	9.96	119.5	12.19	146.3	4	400	2.49	248.9	3.05	304.8	
18	216	11.20	134.4	13.72	164.6	4.5	450	2.80	280.0	3.43	342.9	
20	240	12.45	149.4	15.24	182.9	5	500	3.11	311.2	3.81	381.0	
22	264	13.69	164.3	16.76	201.2	5.5	550	3.42	342.3	4.19	419.1	
24	288	14.94	179.2	18.29	219.5	6	600	3.73	373.4	4.57	457.2	
26	312	16.18	194.2	19.81	237.7	6.5	650	4.04	404.5	4.95	495.3	
28	336	17.42	209.1	21.34	256.0	7	700	4.36	435.6	5.33	533.4	
30	360	18.67	224.0	22.86	274.3	7.5	750	4.67	466.7	5.72	571.5	
32	384	19.91	239.0	24.38	292.6	8	800	4.98	497.8	6.10	609.6	

PB7100 (SVGA) screen size chart

Dietan	cefrom	Diagonal measurement				Distance from		Diagonal measurement			
		Mini	mum	Maxi	imum			Minin	num	Maxir	num
SCI	een	zo	om	zo	om	SCI	een	zoc	m	zoo	m
feet	inches	feet	inches	feet	inches	meters	cm	meters	cm	meters	cm
4	48	1.96	23.5	2.40	28.7	I	100	0.49	48.9	0.60	59.9
6	72	2.93	35.2	3.59	43. I	1.5	150	0.73	73.4	0.90	89.8
8	96	3.91	47.0	4.79	57.5	2	200	0.98	97.8	1.20	119.8
10	120	4.89	58.7	5.99	71.9	2.5	250	1.22	122.3	1.50	149.7
12	144	5.87	70.4	7.19	86.2	3	300	1.47	146.7	1.80	179.7
14	168	6.85	82.2	8.39	100.6	3.5	350	1.71	171.2	2.10	209.6
16	192	7.83	93.9	9.58	115.0	4	400	1.96	195.7	2.40	239.6
18	216	8.80	105.7	10.78	129.4	4.5	450	2.20	220.I	2.70	269.5
20	240	9.78	117.4	11.98	143.7	5	500	2.45	244.6	2.99	299.5
22	264	10.76	129.1	13.18	158.1	5.5	550	2.69	269.0	3.29	329.4
24	288	11.74	140.9	14.37	172.5	6	600	2.93	293.5	3.59	359.4
26	312	12.72	152.6	15.57	186.9	6.5	650	3.18	317.9	3.89	389.3
28	336	13.70	164.3	16.77	201.2	7	700	3.42	342.4	4.19	419.3
30	360	14.67	176.1	17.97	215.6	7.5	750	3.67	366.8	4.49	449.2
32	384	15.65	187.8	19.17	230.0	8	800	3.91	391.3	4.79	479.I

Connecting to Various Equipment

HDTV Equipment

The projector is capable of displaying various High Definition TV display modes. Some of these sources are:

Digital-VHS (D-VHS) player

DVD player

Satellite Dish HDTV receiver

DTV tuners

Most of these sources will provide an analog component video output, a standard VGA output, or a YPbPr (default) format.

The projector is capable of accepting HDTV data through a YPbPr connector. Use a HDTV cable that came with your projector to display HDTV images.

The following standards are supported in the HDTV function:

480i

480p

720p

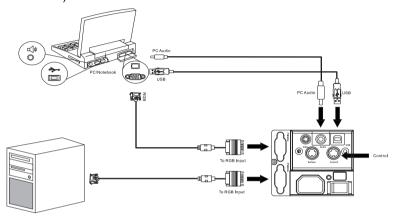
1080i

Please refer to "Menu System" on page 15 for information on the HDTV OSD selections.

Connecting to Various Equipment

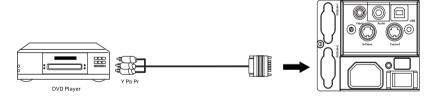
It only takes a few seconds to connect your projector to your desktop or notebook computer, VCR, or other systems. However, a Mac adapter (an optional accessory) is needed for connection to Macintosh computers.

 Notebook/ Computer (Macintosh computer or SOG signal is only supported with RGB IN-1.)

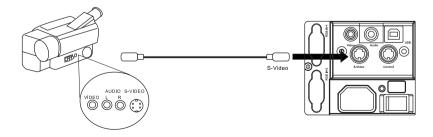


The USB cable is not needed unless you have a remote control with mouse functions.

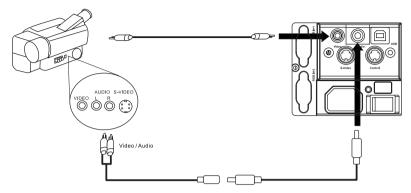
2. DVD player or HDTV can only support with RGB IN-2.



3. S-video device



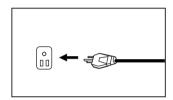
Video device or VCR 4.



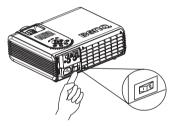
OPERATION

Start Up

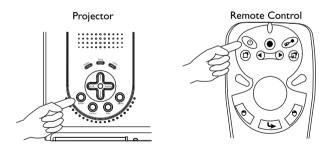
I. Plug the power cord into the projector and into a wall socket.



2. Turn on the main power switch.



3. Press and hold POWER to start the unit. The back-lit POWER key flashes green and stays green when the power is turned on.

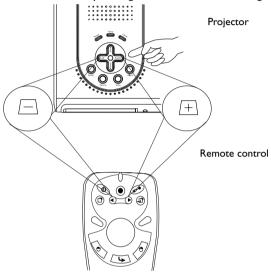


(When the power is turned off, there is a 90-second cooling period before the projector can be re-started.)

4. Switch on all connected equipment.

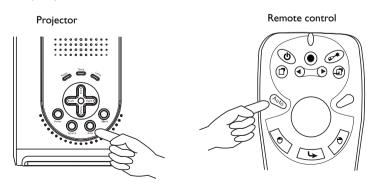
Digital Keystone Correction

Keystoning refers to the situation where the projected image is noticeably wider at either the top or bottom. To correct this, press **Left/Right** (hot key) on the control panel of the projector or KEYSTONE **hot panel** / hot have not the remote control, and then adjust the sliding bar labeled Keystone, as needed. Press + to correct keystoning at the top of the image. Press - to correct keystoning at the bottom of the image.



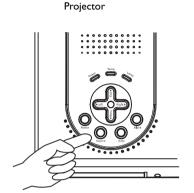
Auto Adjustment

In some cases, you may need to optimize the picture quality. To do this, press the AUTO key on the control panel of the projector or on the remote control. Within 3 seconds, the built-in Intelligent Auto Adjustment function will re-adjust settings to provide the best picture quality.



Source Selection

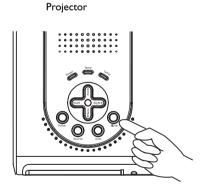
When several input sources are available, press the SOURCE key to make a selection from the control panel of the projector or the remote control.

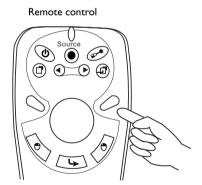




Blank

Uses **Blank** to hide the screen image. You can unseal the image gradually by using the mouse of the remote control, or simply press **Blank** to turn on the image immediately.





Menu System

Press **Menu** for the main menu, and then press or to select a sub-menu. Press Menu again to select items in the sub-menu.

Menu Bar	0	数	•		
Sub-menu	Display	Image	Source	Control	PIP
PC	Keystone Brightness Contrast Phase H Size	Auto Resize H Position V Position Color Temp Information	Mirror Source Scan Volume Mute	Setup Economic Mode	Main page: PIP Source PIP Size PIP Pos. H Position
Y/Pb/Pr		Ratio Color Tint Color Temp		Reset Lamp Hour	V Position More Options Sub Page: Brightness
Video	Keystone Brightness Contrast Color	Ratio System Sharpness Color Temp			Contrast Color Tint Sharpness
S-Video	Tint	Information			System

I. Display Menu

FUNCTION	DESCRIPTION				
	Corrects any keystoning of the image.				
Keystone					
	Adjusts the brightness of the image.				
Brightness					
	Adjusts the degree of difference between dark and light in the				
Contrast	image.				
Phase	*This function is not available when the input mode is Video or S-Video.				
	Adjusts to fit in the desired image size.				
H Size	*This function is not available when the input mode is Video or S-Video.				
Calan	Increases or decreases the color range (R, G, B) of the image.				
Color	*This function is not available when the input mode is PC.				
T:4	Adjusts the image to make it appear more red or blue.				
Tint	*This function is not available when the input mode is PC.				

2. Image Menu

FUNCTION	DESCRIPTION				
Auto Resize	Makes the best fit of the image to the screen, 1. On 2. Off 3. 16:9 *This function is available only when the input mode is PC.				
Ratio	Users have 2 options for the image ratio. 1. 4:3 2. 16:9 *This function is available when the input mode is YPbPr, Video or S-Video.				
H Position	Adjusts the horizontal position of the projected image. *This function is available only when the input mode is PC.				
V Position	*This function is available only when the input mode is PC.				
Color Temp	Adjusts the color temperature to fit your preference.				
Information	Shows the current resolution.				
System	System information will be shown: 1.NTSC 2. PAL 3.SECAM 4. YUV				
Sharpness	Adjusts the image to make it look sharper or softer. *This function is not available when the input mode is PC or YPbPr.				
Color	Increases or decreases the color range (R, G, B) of the image. *This function is not available when the input mode is PC.				
Tint	Adjusts the image to make it appear more red or blue. *This function is available only when the selected System is NTSC.				

3. Source Menu

FUNCTION	DESCRIPTION					
	I. Default	2. Ceiling mounted projection				
Mirror	3. Rear screen projection	4. Ceiling mounted and rear- screen projection				
Source Scan	and Video when several sources	ong RGB-1, RGB-2, YPbPr, S-Video are available.				
Volume	Adjusts the volume level.					
Mute	Off On					

4. Control Menu

FUNCTION	DESCRIPTION		
Language Sets the language for the OSD control menus. Use the ⁴ / ▶ key to select the desired language from an English, French, German, Italian, Spanish, Korean, Tradition Chinese and Simplified Chinese.			
	OSD Pos.		
	Selects a desired OSD position.		
OSD	OSD Time Sets the length of time the OSD will remain active after the last time you pressed the button. The range is from 5 to 60 seconds in 5-second increments.		
	Source Scan		
	When selected, activates the Source scan function.		
	Keystone Hold		
	When selected, preserves the last keystone correction value		
	even when the projector is restarted.		
	Mirror Hold		
	When selected, preserves the last mirror correction value		
	even when the projector is restarted.		
Setup	Blank Time		
	Determines the length of time before the projector is shut off when Blank is activated.		
	Auto Off		
	Sets the length of time before the system is shut off when no input is detected.		
	User Logo		
	Enables the user to define his/her own logo screen that will		
	display during strat-up. Three modes are available: Default (BENQ logo), black screen and blue screen.		
Economic Mode Selects Economic mode to lower brightness and exte lamp life.			
Reset	Returns all settings to their factory preset values.		
Lamp Hour	Shows lamp usage time.		

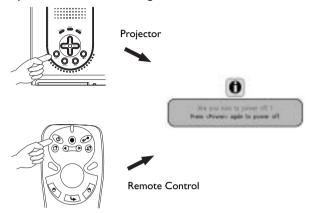
5. PIP Menu

These functions are available only when the input mode is PC and the PIP source is Video or S-Video.

FUNCTION	DESCRIPTION				
PIP Source	Selects the source for the PIP.				
PIP Size	Enables use of the 4 / key to scroll through the four alternatives: Off, Small, Medium, Large.				
PIP Position	Selects a desired position for the PIP. Beng Beng				
H Position	Adjusts the horizontal position of the PIP image.				
V Position	Adjusts the vertical position of the PIP image.				
More Options	Enables use of the 4 / key to select more PIP functions including Brightness, Contrast, Color, Tint, Sharpness and System.				
Brightness	Adjusts the brightness of the PIP image.				
Contrast	Adjusts the degree of difference between dark and light for the PIP image.				
Color	Increases or decreases the color range (R, G, B) of the image.				
Tint	Adjusts the image to make it appear more red or blue.				
Sharpness	Adjusts the image to make it appear sharper or softer				
System	Shows PIP image systems: NTSC, PAL, SECAM				

Shutdown

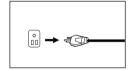
Press and hold POWER and a warning message will appear. To turn off the projector, press and hold POWER again.



- 2. The fan will continue to run for approximately 90 seconds.
- 3. Turn off the main power switch.



Disconnect the power cord from the wall socket.



⚠ Caution

Please do not unplug the power cord before POWER is shut down or during the 90-second cooling process.

If the projector is not properly shut down, to protect the lamp, the system will detect this and cool the lamp for 90 seconds automatically before turning on again.

MAINTENANCE

Lamp Information

Use and Replacement of the Lamp

When the Lamp Indicator lights up red or a message appears suggesting the time of lamp replacement, please install a new lamp or consult your dealer. An old lamp could cause a malfunction in the projector and in rare instances may even break.

For more detailed information, please refer to "LED Indicator Status & Illustration" on page 24.



Caution

The Lamp and Temp indicators will light up if the lamp becomes too hot. Turn off the power and let the projector cool for 45 minutes. If the Lamp or Temp indicator still lights up when turning the power on, please contact your dealer.

Lamp Replacement



Caution

To reduce the risk of electrical shock, always turn off the projector and disconnect the power cord before changing the lamp.

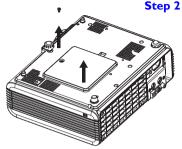
To reduce the risk of severe burns, allow the projector to cool for at least 45 minutes before replacing the lamp.

To reduce the risk of injuries to fingers and damage to internal components, use caution when removing lamp glass that has shattered into sharp pieces.

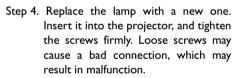
To reduce the risk of injuries to fingers and/or compromising image quality by touching the lens, do not touch the empty lamp compartment when the lamp is removed.

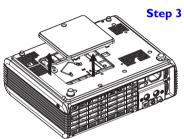
This lamp contains mercury. Consult your local hazardous waste regulations to dispose of this lamp in a proper manner.

- Step I. Turn off the projector. Disconnect the power cord from the outlet and the projector.
- Step 2. Loosen the screw and remove the lamp cover. If the lamp is hot, avoid burns by waiting 45 minutes until the lamp has cooled.



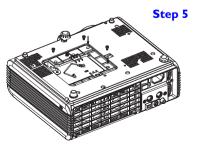
Step 3. Loosen the 3 screws. (It is strongly recommended that you magnetic-head screwdriver.) Pull the handle to remove the lamp housing. If screws are not loosened completely, they could injure your fingers. Do not insert your hand into the box after the lamp is removed. If you touch the optical components inside. this could cause color unevenness in projected images.





Step 4

Step 5. Re-install the lamp cover and tighten the screw. Do not turn on the power with the lamp cover removed. Whenever the lamp is replaced, reset the total lamp operation time. Do not reset if the lamp is not replaced as this could cause damage.



Resetting Lamp Hours

If you replace the lamp after 2000 hours of operation, please follow the instructions below within 10 minutes of powering on.

OSD	FUNCTION
Press <menu> To RESET</menu>	Press and hold the Exit button on the projector for 3 seconds to display the total used lamp time.
Press <exit> To Leave</exit>	 Press the MENU button on the projector during the lamp hour message. An adjustment message will appear. Press ◀ or ▶ to reset lamp hours or press EXIT to leave.

Temp Information

When the LED lights up, it is warning you of the following possible problems:

- 1. The internal temperature is too high.
- 2. The fans are not working.

Turn off the projector and contact qualified service personnel for further help. For more detailed information, please refer to "LED Indicator Status & Illustration" on page 24.

LED Indicator Status & Illustration

llustration

- I. -: LED OFF
- 2. LED blinking
- 3. : LED solid ON

LED			Status & Description	
Power	Temp	Lamp		
Power events				
0	0	0	Power switch on	
0	1	-	Power-up cooling. Projector cooling system will auto-cool for 90 seconds when power was abnormal shutdown without cooling and power on again within hours.	
0	-	-	Stand-by	
G	-	-	Lamp LED is blinking during powering up.	
0	1	1	Power-down cooling for 90 seconds after power has been turned off.	
G	•	•	Normal operation	
			Lamp events	
-	-	R	Lamp spoil, it is warning you that lamp usage has exceeded 2000 hours. Replace the projection lamp with a new one immediately.	
-	-	R	Lamp error, the lamp is not properly attached or lamp damaged. Please contact your dealer.	
			Thermal events	
R	R	-	Fan I error, projector will auto shutdown. If you return on the power, and projector shutdown again. Please contact your dealer.	
R	R	G	Fan 2 error, projector will auto shutdown. If you return on the power, and projector shutdown again. Please contact your dealer.	
R	R	G	Fan 3 error, projector will auto shutdown. If you return on the power, and projector shutdown again. Please contact your dealer.	

G	R	-	Thermal sensor I over-temperature, projector will auto shutdown. If you return on the power, and projector shutdown again. Please contact your dealer.
G	R	G	Thermal sensor 2 over-temperature, projector will auto shutdown. If you return on the power, and projector shutdown again. Please contact your dealer.
G	R	G	Thermal sensor 3 over-temperature, projector will auto shutdown. If you return on the power, and projector shutdown again. Please contact your dealer.
-	R	-	Thermal sensor I doesn't work, projector will auto shutdown. If you return on the power, and projector shutdown again. Please contact your dealer.
-	R	G	Thermal sensor 2 doesn't work, projector will auto shutdown. If you return on the power, and projector shutdown again. Please contact your dealer.
-	R	G	Thermal sensor 3 doesn't work, projector will auto shutdown. If you return on the power, and projector shutdown again. Please contact your dealer.

Service Information

Accessories (included in the standard package)

Description	Part Number
Signal cable	. 50.J0508.502
Video cable	. 50.J1303.501
S-Video cable	. 50.72920.011
RCA R/W audio cable	. 50.J1311.001
PC - PC audio cable	. 50.74405.501
Soft carry case	98.J7201.001
HDTV cable	50.J2401.001
USB mouse cable	. 50.73213.501
Remote control	98.J3401.011

Alternative Accessories

Power cord (for the US)	.27.01818.000
3-2 converter(for the US)	22.91007.001
Power cord (for EU countries)	.27.82718.281
Power cord (for UK)	27.01018.000

Optional Accessories (not included in the standard package)

Description of parts	. Part number
Mac adapter (switchable)	20.20118.A15
250W lamp module	65.J4002.001
Ceiling mount kit	60.17615.001

Ordering Parts or Getting Information

For product information, product assistance, service information, or to order accessories, please visit the BENQ Corporation website at http://www.BenQ.com.

TROUBLESHOOTING

Common Problems & Solutions

NO POWER

Try these solutions:

- Make sure the power cord is inserted snuged into the AC adapter socket.
- Make sure the power cord is inserted snuged into the power outlet.
- Toggle the power switch to the position "I".
- Wait two minutes after the projector is turned off before turning the projector back on.

NO PICTURE

Try these solutions:

- Check for the proper input source.
- Ensure all cables are connected properly.
- · Adjust the brightness and contrast.
- · Remove the lens cap.

TRAPEZOID IMAGE ON THE SCREEN

Try these solutions:

- Reposition the unit to improve its angle on the screen.
- Use the **Keystone** correction key on the control panel of the projector or the remote control unit.

POOR COLOR

Try these solutions:

- · Select the correct video system.
- Adjust brightness, contrast, or saturation.

BLURRED IMAGE

Try these solutions:

- Press Auto on the control panel of the projector or the remote control unit to get better picture quality.
- Adjust the focus.
- Reposition the unit to improve its projection angle.
- Ensure the distance between the unit and screen is within the adjustment range of the lens.

REMOTE CONTROL DOES NOT WORK

Try these solutions:

- Replace the batteries with new ones.
- Make sure there is no obstacle between the remote control and the projector.
- Stand within 6 meters (19.5 feet) of the projector.
- Make sure nothing is blocking the front and rear receivers.

Status Messages

On-Screen Messages	Description
SEARCHING	Projector is searching for input.
ACQUIRING SIGNAL	Projector has identified the input signal and is running the auto image adjustment function.
OUT OF RANGE	Input signal frequency exceeds the projector's range.
LAMP WARNING - CHANGE LAMP AND RESET LAMP TIMER!	The lamp has been in operation for 1900 hours. Install a new lamp for optimal performance.
OUT OF LAMP USAGE TIME. YOU HAVE TO CHANGE THE LAMP!	The lamp has been in operation for 1980 hours, and the power will turn off after 20 hours.
OUT OF LAMP USAGE TIME. CHANGE THE LAMP!	The lamp has been in operation for over 2000 hours. The warning message will display for 30 seconds every 5 minutes after you turn on the projector and the power will turn off automatically after 10 minutes.

SPECIFICATIONS

Projector Specifications

Technical Specifications

Note: All specifications are subject to change without notice.

General

Product name Personal Projector

Model name PB7200 I024X768 XGA

PB7220 1024X768 XGA PB7100 800X600 SVGA

Optical

Display system I-CHIP DMD

Lens F/Number F/2.6

Lamp 250W UHP lamp

Electrical

Power supply AC100 ~ 240V, 4.0A, 50/60 Hz (Automatic)

Power consumption 330W (Max)

Mechanical

Dimensions 258 mm (W) x 80 mm (H) x 211.5 mm (D)

Operating temperature 10°C ~ 40°C

range

Weight 5.6 lbs (2.5 Kg)

Input terminal

Computer input

RGB input - 1 D-sub 15-pin (female) RGB input - 2 D-sub 15-pin (female)

Video signal input

S-VIDEO Mini DIN 4-pin port x I

VIDEO RCA jack x I

HDTV signal input D-sub <--> YPbPr RCA jack x3

Audio signal input

Audio I Mini jack stero port

Output

USB mouse connector A/B series x I Speaker 2 watt x I

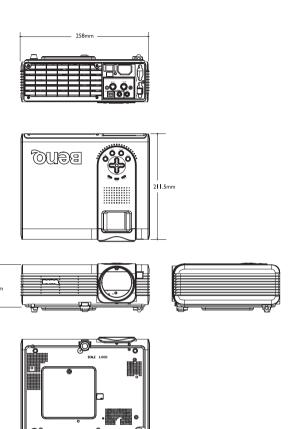
Control

RS-232C 9-pin x1

Timing Chart

Resolution	H Sync (kHz)	V Sync (Hz)	Remark
640×350	31.5	70.1	
640×400	37.9	85.1	VESA
720×400	31.5	70.0	
720×400	37.9	85.1	VESA
640×480	31.5	60.0	VESA
640×480	37.9	72.8	VESA
640×480	35	66.7	Macintosh
640×480	43.3	85.0	VESA
800×600	35.2	56.3	VESA
800×600	37.9	60.3	VESA
800×600	46.9	75.0	VESA
800×600	48.1	72.2	VESA
800×600	53.7	85.1	VESA
832×624	49.7	74.5	Macintosh
1024x768	48.4	60.0	VESA
1024×768	56.5	70.1	VESA
1024×768	60.0	75.0	VESA
1024x768	68.7	85.0	VESA
1280×1024	64.0	60.0	VESA

DIMENSIONS



Unit: mm

WARRANTY

Limited Warranty

BENQ warrants this product against any defects in material and workmanship, under normal usage and storage.

Exclusion to Warranty: The lamps are considered a consumable item and are warranted for 90 days or 500 hours, whichever occurs first. Proof of purchase date will be required with any warranty claim. In the event this product is found to be defective within the warranty period, BENQ's only obligation and your exclusive remedy shall be replacement of any defective parts (labor included). To obtain warranty service, immediately notify the dealer from which you purchased the product of any defects. Important: The above warranty shall be void if the customer fails to operate the product in accordance with BENQ's written instructions. This warranty gives you specific

legal rights, and you may have other rights which vary from country to country. For other information, please refer to BenQ Warranty Information Book.

SAFETY REGULATIONS

FCC Statement

CLASS A: This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class "A" computing device pursuant to Subpart B of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his/her own expense will be required to take whatever measures may be required to correct the interference.

CLASS B: This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

EEC Statement

This machine was tested against the 89/336/EEC (European Economic Community) for EMC (Electro Magnetic Compatibility) and fulfills these requirements.